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PowerMax PMTS-30

PowerMax PMTS-30 30 Amp Automatic Transfer Switch Instruction Manual

Model: PMTS-30 | Brand: PowerMax

1. INTRODUCTION

The PowerMax PMTS-30 automatic transfer switch is designed for use in RVs with 30 Amp AC service. This device automatically provides AC power to all AC appliances when connected to shore power. To operate appliances from an onboard generator or alternative power source, simply activate the source, and the PMTS-30 will automatically transfer the electrical power to AC appliances. It features a time delay of 20-30 seconds to allow the generator voltage to stabilize before transfer.

This automatic transfer switch facilitates seamless transfer between two 110 Vac inputs to a single 110 Vac output, making it ideal for RVs, off-grid setups, and backup power solutions. It is a 30A unit with a 12 Volt DC Relay.

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](#).

Always ensure all power sources are disconnected before servicing the unit. Installation and maintenance should only be performed by a qualified electrician to prevent electric shock or damage to the unit. Do not operate the unit if it appears damaged or if any wiring is loose. Ensure proper grounding for safe operation.

3. PRODUCT OVERVIEW

The PowerMax PMTS-30 is a compact and robust automatic transfer switch designed for reliable power management.



Image 1: Top view of the PowerMax PMTS-30 Automatic Transfer Switch, showing the black casing and product label.



Image 2: Internal view of the PowerMax PMTS-30 Automatic Transfer Switch, showing the relay components and wiring connections within the black enclosure.

4. SETUP AND INSTALLATION

Professional Installation Recommended: Due to the electrical nature of this device, installation should be performed by a qualified electrician to ensure safety and proper functionality.

4.1 Pre-Installation Steps

- Ensure all power sources (shore power, generator, inverter, battery) are completely disconnected and locked out before beginning installation.
- Verify that the installation location is dry, well-ventilated, and protected from physical damage.
- Confirm that the wiring used meets local electrical codes and is rated for 30 Amps at 110 Vac.

4.2 Wiring Connections

The PMTS-30 is designed for straightforward integration into existing RV electrical systems. It features automatic transfer between two 110 Vac inputs (e.g., shore power and generator/inverter) to a single 110 Vac output (to your

RV's AC panel).

Connect the primary power source (e.g., shore power) to the designated input. Connect the secondary power source (e.g., generator or inverter) to its respective input. The output of the transfer switch connects to your RV's main AC distribution panel. Ensure all connections are secure and properly insulated. Refer to the wiring diagram provided with your unit for specific terminal connections.

The unit is designed for quick installation, often within 10 minutes for experienced installers, and does not require complex rewiring of your RV's main electrical system.

5. OPERATING INSTRUCTIONS

The PowerMax PMTS-30 operates automatically. When shore power is available and connected, the switch will prioritize and supply power from the shore connection to your RV's AC appliances.

If shore power is disconnected or unavailable, and a generator or inverter is started, the PMTS-30 will detect the alternative power source. After a 20-30 second delay (allowing the alternative source to stabilize), the switch will automatically transfer the AC load to the active alternative power source.

When shore power is restored, the switch will automatically revert to the shore power source, typically after a brief delay to ensure stability.

6. MAINTENANCE

The PowerMax PMTS-30 is designed for durability and minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Regularly inspect the unit for any signs of physical damage, loose connections, or corrosion.
- **Connection Integrity:** Ensure all wiring connections remain tight and secure.
- **Cleanliness:** Keep the unit free from dust, dirt, and moisture.
- **Professional Check:** Have a qualified electrician inspect the unit and your RV's electrical system annually.

7. TROUBLESHOOTING

If the automatic transfer switch is not functioning as expected, consider the following:

- **No Power Output:** Check if both primary and secondary power sources are active and providing correct voltage. Verify all circuit breakers in your RV and at the power source are not tripped.
- **Delayed Transfer:** The unit has a built-in 20-30 second delay for generator stabilization. This is normal operation.
- **Inconsistent Transfer:** Ensure all wiring connections are secure and free from corrosion. Check for any signs of damage to the unit itself.
- **Battery Issues:** The intelligent charging system of PowerMax products is designed to maintain your RV battery without overcharging. If you suspect battery issues, consult your battery manufacturer's guidelines.

For persistent issues, contact PowerMax customer support or a qualified electrician.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	PMTS-30
Operation Mode	Automatic
Current Rating	30 Amps
Operating Voltage	120 Volts
Contact Type	Normally Closed
Connector Type	Plug In
Terminal	Screw
Circuit Type	2-way
Actuator Type	Rotary
Contact Material	Metal
Wattage	3600 watts
Item Weight	2.4 pounds
Package Dimensions	9.21 x 9.17 x 3.31 inches

9. WARRANTY AND SUPPORT

The PowerMax PMTS-30 Automatic Transfer Switch comes with a two-year warranty. For warranty claims, technical support, or any inquiries, please contact PowerMax customer service directly. Refer to the contact information provided with your product packaging or visit the official PowerMax website.